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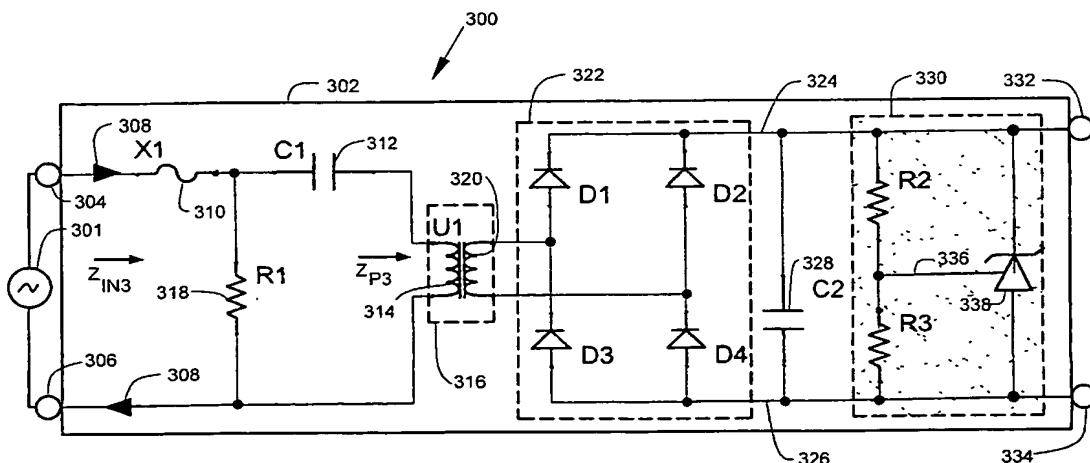
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(54) Title: AC TO DC CONVERTER CIRCUIT



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(57) Abstract: An AC to DC converter circuit (300) includes a transformer (316) having primary (314) and secondary (320) windings, a rectifier bridge (322) coupled to the secondary winding, a DC filter capacitor (328) coupled to the rectifier bridge, a voltage regulator (330) coupled to the DC filter capacitor and to DC output contacts (332, 334). The converter circuit includes an AC reactance (312) coupled in a series circuit with the primary winding and AC input contacts (304, 306). The AC reactance limits AC excitation voltage at the primary winding to less than the AC line voltage.